PATENT COOPERATION TOFATV

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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY To: THE INTERNATION TREAT 14 -09- 2005					
To:			PCT 35 2005	•	
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P.O. Box 16		WRITTEN OPINION OF THE			
FIN-00101 Helsinki		INTERNATIONAL PRELIMINARY			
FINLAND		E	XAMINING AUTHORITY		
			(PCT Rule 66)		
MAKI	TLA	Date of mailing	1 2 -09- 2005		
Applicately and SI S		(day/month/year)	2 03 2003		
Applicant's or agent's file reference		REPLY DUE	within 60 days from	11.11.05	
BP108109/MAK			the above date of mailing	11.11.05	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/FI2003/000972	19-12-2003				
International Patent Classification (IPC) o		tion and IPC			
H04M1/02					
Applicant					
Nokia Corporation et	-1	•			
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1. The written oninion establish	411. 1				
	ed by the international So	earching Authority:			
is		is not			
considered to be a written opinion of the International Preliminary Examining Authority.					
2. This first (first, etc.) opinion contains indications relating to the following items:					
Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited					
Box No. VII Certain defects in the international application					
Box No. VIII Certain observations on the international application					
3. The applicant is hereby invited to reply to this opinion.					
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e).					
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.					
Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis. For an informal communication with the examiner, see Rule 66.6					
For an additional opportunity to submit amendments, see Rule 66.4.					
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
4. The final date by which the international preliminary report on patentability (Chapter II of the PCT) must be established according to Rule 69.2 is: 19-04-2006					
Name and mailing address of the IPEA/SE					
Patent - och registreringsverker Authorized officer					

Box 5055 S-102 42 STOCKHOLM Roland Landström /LR Telephone No. 46 8 782 25 00 Facsimile No. 46 8 667 72 88
Form PCT/IPEA/408 (cover sheet) (April 2005)

International application No.

PCT/FI2003/000972

1. With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into which is the language of a translation furnished for the purposes of: international search (Rules 12.2(a) and 23.1(b)) publication of the international application (Rule 12.4(a)) international preliminary examination (Rules 55.2(a) and/or 55.3(a)) 2. With regard to the elements of the international application, this opinion has been established on the basis of (replacement shaets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"." With regard to the elements of the international application, this opinion has been established on the basis of (replacement shaets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"." With regard to the learnest shaets which have been furnished to the description: pages	Box	No. I	Ba	asis of the opinion			
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International application No. PCT/FI2003/000972

Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement		
Novelty (N)	Claims Claims	
Inventive step (IS)	Claims Claims	1 - 8
Industrial applicability (IA)	Claims Claims	

2. Citations and explanations:

The invention relates to a mobile phone assembly and is intended to cut down the number of separate parts, reduce time and stages in the assembly and reduce the costs of the complete mobile phone.

Reference is made to the following documents:

D1: US 4703160 A D2: US 5541813 A D3: US 5432676 A

Document D1 (column 3, line 55 - column 8, line 11, figures 1 - 5, abstract) discloses a base part (18, 16, 14, 12) for a portable electronic appliance (10). The base part (18, 16, 14, 12) consists of a (hard) body part (16, 14, 12) including a keypad (28), a window (18) and a soft middle part (24), which connects the body parts (18, 16, 14, 12). The window (18) is foldable against the (hard) body part (16) along a hinge line (24) created in the soft middle part (24). The base part (18, 16, 14, 12) is constructed of a resilient material so that the thinned narrow strip portion (24, 26) formed between every adjacent two parts (18, 16, 14, 12) provides an integral hinge joint (24, 26). Thus, the parts (18, 16, 14, 12) that are not thinned are hard compared to the hinge joints (24, 26). The base part (18, 16, 14, 12) is injection molded from an elastomer resin. The integral hinge reduces the number of components and simplifies the assembly of the appliance (column 10, lines 10 - 21).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Document D2 (column 4, line 61 - column 8, line 5, figures 1 - 10, abstract) discloses a base part (6) for a mobile phone (1). The base part (6) consists of two hard body parts (6) and a soft middle part (7), which connects the hard body parts (6). One of the hard body parts (6) is foldable against the other hard body part (6) along a hinge line (7) created in the soft middle part (7). The base part (6) is manufactured by injection molding with a first injection mold (33, 36, 25, 20) producing two hard body parts (6) of hard plastic (6a), and injection molding with a soft polyurethane resin producing a soft middle part (7a) which has a hinge line (7a) to fold up one of the hard body parts (6) against the other hard body part (6).

Document D3 (column 4, line 61 - column 8, line 28, figures 1 - 10, abstract) discloses a similar technique.

The invention claimed in claims 1 - 5 differs from what is known from document D1, the closest prior art, essentially in that the portable electronic appliance is a mobile phone.

The technical problem is how to find a new use for the base part of document D1.

Considering that a mobile phone is a well known example of a portable electronic appliance, wherein a reduction of the number of component members and elements in assembling the appliance is desirable, and that no unexpected technical effect is obtained, it would be obvious to suggest the use of the base part of document D1 for a mobile phone. Therefore, the invention claimed in claims 1 - 5 lacks an inventive step.

The invention claimed in claims 6 - 7 differs from what is known from document D1, the closest prior art, essentially in that the portable electronic appliance is a mobile phone and that the injection molding is performed with hard plastic for the window and the hard body part, and with a soft elastomer for the soft middle part.

The technical problem is how to find a new use for the base part of document D1 and how to find an alternative method of manufacture.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

A person skilled in the art finds this method of manufacture from document D2, which relates to a mobile phone. Considering this and that no unexpected technical effect is obtained, it would be obvious to suggest manufacturing the base part of document D1 using the technique of document D2 and using the base part for a mobile phone.

Therefore, the invention claimed in claims 6 - 7 lacks an inventive step.

The invention claimed in claim 8 is obvious to a person skilled in the art. Therefore, the invention claimed in claim 8 lacks an inventive step.

To sum up, the invention claimed in claims 1 - 8 lacks an inventive step.

Form PCT/IPEA/408 (Supplemental Box) (April 2005)